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UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Research Service

Publications and Articles  
From Human Nutrition and Home Economics Research  
January, February 1954

Department Publications

Single copies of unstarred publications available free from Office of Information, U. S. Department of Agriculture, Washington 25, D. C.  
Starred publications available only by purchase. Send order and remittance to Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Peanut and peanut butter recipes. HG-36. (Revision of AIS-68.) 20 pp.  
Jan. 1954.

Pork--Facts for consumer education. AIB-109. Irene H. Wolgamot and Lillian J. Fincher. 22 pp., illus. Jan. 1954.

\*Estimating the nutritive value of the United States per capita food supply.  
In Consumption of food in the United States, 1909-52. AH-62, pp. 160-171.  
Sept. 1953. 70 cents.

Buying women's coats and suits. HG-31. Clarice L. Scott. 23 pp., illus.  
Jan. 1954.

\*Report of the Chief of the Bureau of Human Nutrition and Home Economics, Agricultural Research Administration, 1953. 14 pp. Sept. 15, 1953. 10 cents.

Processed Publications (Single copies available from Human Nutrition Research Branch, Agricultural Research Service, U. S. Department of Agriculture, Washington 25, D. C.)

Home canning of vegetables. HE-489B. 6 pp. Rev. Feb. 1954. (Supplement to HG-8, Home canning of fruits and vegetables.)

Articles published in professional journals (Please consult journals; U. S. Department of Agriculture usually cannot furnish reprints of articles.)

Relationship of candled quality of eggs to other quality measurements. E. A. Sauter, J. Vivian Harns, W. J. Stadelman, and Barbara A. McLaren. Poultry Sci. 32: 850-854. Sept. 1953. (Contract research with Wash. Agr. Expt. Sta., sponsored by HNRB.)

Nutritive value of bread and cookies containing cottonseed flour. Madelyn Womack, Mary W. Marshall, and John C. Summers. Jour. Agr. and Food Chem. 2: 138-140. Feb. 3, 1954.

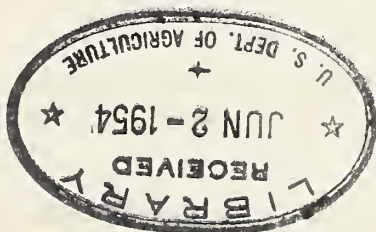
Articles published in professional journals - continued

Influence of carbohydrate, nitrogen source and prior state of nutrition on nitrogen balance and liver composition in the adult rat. Mary W. Marshall and Madelyn Womack. Jour. Nutr. 52: 51-64. Jan. 1954.

Problems in evaluating flavor effects of pesticide treatments. Howard Reynolds. Proc. of 44th Annual Convention of Flavoring Extract Manufacturers' Assoc. of the United States, pp. 49-50, 52-54.

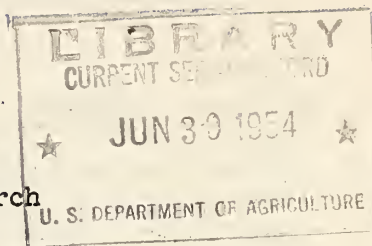
Microbiological procedure for the assay of pantothenic acid in foods; results compared with those by bioassay. E. W. Toepfer, E. Gates Zook, and L. R. Richardson. Jour. Off. Agr. Chem. 37: 182-190. Feb. 15, 1954.

Time and money costs of meals using home- and prekitchen-prepared foods. Gertrude S. Weiss. Jour. Home Econ. 46: 98-100. Feb. 1954.



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UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Research Service



Publications and Articles  
From Human Nutrition and Home Economics Research  
March--April 1954

Department Publications

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Recipes for quantity service. Food Service X. PA-238. G. Schlosser, V. Chapman, and E. Geissenhainer. 72 pp. Apr. 1954.

Nutritive content of homemakers' meals, four cities, winter 1948. AIB-112. Faith Clark and Lillian J. Fincher. 67 pp. Mar. 1954.

\*Survey of food and nutrition research in the United States of America, 1952-1953. 372 pp. Apr. 1954. (Survey made by National Research Council under contract with USDA.) \$1.75

Expansible farmhouse--frame. L-356. 2 pp., illus. Mar. 1954. (In coop. with Agr. Engin. Res. Br.)

Expansible farmhouse--masonry. L-357. 2 pp., illus. Mar. 1954. (In coop. with Agr. Engin. Res. Br.)

Processed publication A selected list of nutrition and school lunch materials. 13 pp. Rev. Feb. 1, 1954. (Single copies available from Human Nutrition Research Branch, Agricultural Research Service, U. S. Department of Agriculture, Washington 25, D. C.)

Articles published in professional journals (Please consult journals; U. S. Department of Agriculture usually cannot furnish reprints of articles.)

The maternal diet as a source of growth factors transmitted by the hen through the egg to the progeny. F. A. Csonka, R. J. Lillie, and W. Martin. (In coop. with Animal and Poultry Husbandry Br.) Jour. Nutr. 52: 285-296. Feb. 10, 1954.

Developing breads of higher nutritive value. Vera Brastow Parks, Elizabeth M. Hewston, Mary W. Marshall, and Adel M. Bruinooge. Amer. Dietet. Assoc. Jour. 30: 245-250. Mar. 1954.

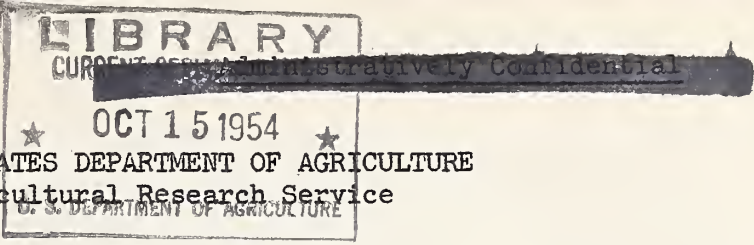
A report on the freezing of prepared foods. Elsie H. Dawson, Gladys L. Gilpin, Georgia C. Schlosser, Jessie C. Lamb, and Claire Endersbee. Amer. Restaurant Mag. 38(2): 62-64, 142-151. Feb. 1954.



Articles published in professional journals--Continued

- Availability of amino acids to microorganisms. II. A rapid microbial method of determining protein value. Millard J. Horn, Amos E. Blum, and Madelyn Womack. Jour. Nutr. 52: 375-381, illus. Mar. 1954. (Paper given at meeting of Animal Nutrition Research Council, Oct. 14, 1953.)
- Essential fatty acids and human nutrition. I. Serum levels for unsaturated fatty acids in healthy children. Hilda F. Wiese, Reagan H. Gibbs, and Arild E. Hansen. Jour. Nutr. 52: 355-365, illus. Mar. 1954. (Contract research with Univ. of Texas, Med. Br., sponsored by HNRB.)
- Essential fatty acids and human nutrition. II. Serum levels for unsaturated fatty acids in poorly nourished infants and children. Arild E. Hansen and Hilda F. Wiese. Jour. Nutr. 52: 367-374, illus. Mar. 1954. (Contract research with Univ. of Texas, Med. Br., sponsored by HNRB.)
- Chick embryonic death in relation to maternal diet. Frank A. Csonka, Marlow W. Olsen, and J. R. Sizmore. (Abstract.) Fed. Proc. 13 (1, pt. 1): 195. Mar. 1954.
- Effect of high environmental oxygen on retinal vessel development in the rat. Elizabeth Crofts Callison, Murray Fisher, and Arnall Patz. (Abstract.) Fed. Proc. 13 (1, pt. 1): 452. Mar. 1954.
- Relationships of nutrient levels of diets of Iowa school children to physical and biochemical measurements. Ercel S. Eppright, Virginia D. Sidwell, and Charlotte Roderuck. (Abstract.) Fed. Proc. 13 (1, pt. 1): 456. Mar. 1954. (N. Cent. Reg. Proj., HNRB cooperating.)
- Serum alkaline phosphatase relationships in nutritional status evaluation of adolescents. Lura M. Odland and Ruth Jean Ostle. (Abstract.) Fed. Proc. 13 (1, pt. 1): 471. Mar. 1954. (West. Reg. Proj., HNRB cooperating.)
- Nutritional status of the aging: hematology. Agnes Fay Morgan and Helen L. Gillum. (Abstract.) Fed. Proc. 13 (1, pt. 1): 469. Mar. 1954. (West. Reg. Proj., HNRB cooperating.)
- Surveys of food and nutrition research in U. S. LeRoy Voris and Helen L. Jeffrey. (Abstract.) Fed. Proc. 13 (1, pt. 1): 481. Mar. 1954. (Survey made by National Research Council under contract with USDA.)
- Effect of oil treating shell eggs on their functional properties after storage. E. A. Sauter, Vivian Harns, W. J. Stadelman, and Barbara McLaren. Food Technol. 8(2): 82-85. Feb. 1954. (Contract research with Wash. Agr. Expt. Sta., sponsored by HNRB.)
- Predicting the wear-life of sheer curtain materials. Hazel M. Fletcher and S. Helen Roberts. Jour. Home Econ. 46: 318-319, illus. Mar. 1954.
- Use of condensed schedule to cut costs in family-expenditure surveys. Barbara B. Reagan. Jour. Home Econ. 46: 165-170, illus. Mar. 1954.

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UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Research Service

Publications and Articles  
from Human Nutrition and Home Economics Research  
May-July 1954

Department Publications

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Starred publications available only by purchase. Send order and remittance to Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Milk and its products...facts for consumer education. AIB-125. Irene H. Wolgamot and Lillian J. Fincher. 31 pp., illus. May 1954.

\*Farm family spending and saving in Illinois, with a comparison of survey and home accounts data. AIB-101. Jean L. Pennock, Margaret L. Brew, and Rose C. Tillinghast. 92 pp., illus. May 1954. 30 cents.

Articles published in professional journals (Please consult journals; U. S. Department of Agriculture usually cannot furnish reprints of articles.)

Benzene hexachloride content and flavor of peanuts grown in rotation with cotton dusted with this insecticide. Irwin Hornstein, Entomology Res. Branch, Howard Reynolds, Gladys L. Gilpin, Human Nutr. Res. Branch. Jour. Agr. and Food Chem. 2(15): 776-778. July 21, 1954.

Flavor of peanut butter as affected by aldrin, chlordane, dieldrin, heptachlor, and toxaphene used as insecticides in growing peanuts. Gladys L. Gilpin, Ruth A. Redstrom, Howard Reynolds, and Fred W. Poos. (In coop. with Entomology Res. Br.) Jour. Agr. and Food Chem. 2(15): 778-780. July 21, 1954.

Effect of benzene hexachloride sprays on the flavor of fresh, frozen, and canned peaches. Gladys L. Gilpin, Elsie H. Dawson, and Edouard H. Siegler. (In coop. with Entomology Res. Br.) Jour. Agr. and Food Chem. 2(15): 781-783. July 21, 1954.

Percentage relationships for raw-car cass weights and yield of cooked edible portion for young Beltsville small white turkeys. Mary T. Swickard and Alice M. Harkin. Poultry Sci. 33(4): 775-779. July 1954.

Safeguarding turkey's fine flavor. Agr. Res. 2(12): 15. June 1954.

Seasonal variations in quality of eggs as measured by physical and functional properties. E. A. Sauter, J. Vivian Harns, W. J. Stadelman, and Barbara A. McLaren. Poultry Sci. 33(3): 519-524. May 1954. (Contract research with Wash. Agr. Expt. Sta., sponsored by Human Nutr. Res. Branch.)

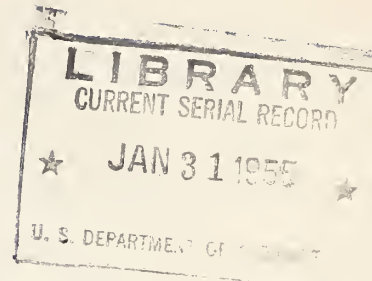
Articles in professional journals--Continued

- Household practices in the use of eggs. Corinne LeBovit and Faith Clark. Poultry and Egg Situation, PES-172, pp. 20-22. July 1954. (Processed.) (Contract research with National Analysts, Inc., sponsored by Home Econ. Res. Branch.)
- Household practices in the use of milk and butter. Corinne LeBovit and Faith Clark. Dairy Situation, DS-243, pp. 15-19. June 1954. (Processed.) (Contract research with National Analysts, Inc., sponsored by Home Econ. Res. Br.)
- Significance of variations in observed slopes of thermal death time curves for putrefactive anaerobes. Arthur M. Kaplan, Howard Reynolds, and Harold Lichtenstein. Food Res. 19(2): 173-181. Mar.-Apr. 1954.
- Children with and without rheumatic fever. I. Nutrient intake, physique, and growth. Ethelwyn B. Wilcox and Leora S. Galloway. Amer. Dietet. Assoc. Jour. 30: 345-350, illus. April 1954. (West. Reg. Proj., Human Nutrition Res. Br. cooperating.)
- Children with and without rheumatic fever. II. Food habits. Ethelwyn B. Wilcox and Leora S. Galloway. Amer. Dietet. Assoc. Jour. 30: 453-457, illus. May 1954. (West. Reg. Proj., Human Nutrition Res. Br. cooperating.)
- Sequence of histologic changes in skin of dogs in relation to dietary fat. Arild E. Hansen, John G. Sinclair and Hilda F. Wiese. Jour. Nutr. 52: 541-554, illus. April 1954. (Contract research with Univ. of Tex. Med. Br., sponsored by Human Nutr. Res. Br.)
- Fatty acid contents of certain processed foods. Constance Willard, R. D. Englert, and L. M. Richards. Jour. Amer. Oil Chem. Soc. 31: 131-135, illus. Apr. 1954. (Contract research with Stanford Research Institute, sponsored by Human Nutr. Res. Br.)
- Fatty acid contents of several food products. Constance Willard, R. D. Englert, and L. M. Richards. Jour. Amer. Oil Chem. Soc. 31: 135. Apr. 1954. (Contract research with Stanford Research Institute, sponsored by Human Nutrition Research Branch.)
- Planning the family's insurance program. Virginia Britton. Jour. Home Econ. 46: 389-392. June 1954.



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UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Research Service  
Washington 25, D. C.



Publications and Articles  
from Human Nutrition and Home Economics Research  
October - November 1954

Department publications (Single copies free from Office of Information,  
U. S. Department of Agriculture, Washington 25, D. C.)

Turkey on the table the year round. HG-45. 22 pp. Oct. 1954. Human  
Nutrition Research Branch. (Revision of Farmers' Bulletin 2011.)

Green vegetables for good eating. HG-41. 16 pp. Oct. 1954. Human Nutri-  
tion research Branch. (Revision of Leaflet 272.)

Human nutrition and home economics research---in the U. S. Department of  
Agriculture. PA-251. 20 pp. Oct. 1954. (Revision of HNHE-112)

Split level expansible farmhouse. Leaflet 376. 2 pp. (Plan No. 7128)  
June 1954. (Off press Nov. 1954.)

Processed publication (Available from Human Nutrition and Home Economics  
Research, Agricultural Research Service, U. S. Department of Agriculture,  
Washington 25, D. C.)

Food and nutrition service of Federal and quasi-official agencies of the  
United States. ARS 61-1. 50 pp. Nov. 1954. Nutrition Programs Service,  
Human Nutrition Research Branch. (Processed)

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Articles published in professional journals (PLEASE CONSULT JOURNALS; U. S.  
DEPARTMENT OF AGRICULTURE USUALLY CANNOT FURNISH REPRINTS OF ARTICLES.)

A comparison of several methods for evaluation of quality in eggs. J. V.  
Harns, E. A. Sauter, B. A. McLaren, and W. J. Stadelman. Poultry Sci. 33:  
1022-1028. Sept. 1954. (Contract research with Wash. Agr. Expt. Sta., spon-  
sored by Human Nutrition Research Branch.)

Some factors affecting flavor of eggs. J. V. Harns, E. A. Sauter, B. A. McLaren,  
and W. J. Stadelman. Poultry Sci. 33: 992-997. Sept. 1954. (Contract  
research with Wash. Agr. Expt. Sta., sponsored by Human Nutrition Research  
Branch.)

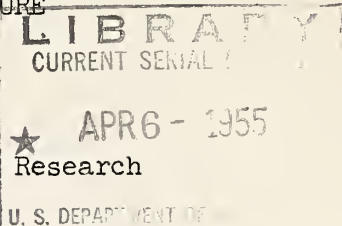
Development of clothing budgets. M. L. Brew. Jour. Home Econ. 46: 8. Oct.  
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UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Research Service  
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Publications and Articles  
from Human Nutrition and Home Economics Research  
December 1954 - January 1955



Department publications (Single copies free from Office of Information,  
U. S. Department of Agriculture, Washington 25, D. C.)

Money-saving main dishes. (Revision of and supersedes Leaflet 289.) Human  
Nutrition Res. Br. Home and Garden Bul. 43, 48 pp., illus. Feb. 1955.

Dry beans, peas, lentils...modern cookery. Leaflet 326. Slightly revised  
Nov. 1954.

Your farmhouse--how to plan remodeling. Home and Garden Bul. 42. Slightly  
revised Aug. 1954. (Supersedes MP-619.)

Department publications (For sale only. Send order and remittance to  
Superintendent of Documents, Government Printing Office, Washington 25, D.C.)

Food consumption of farm families...Meeker and Wright Counties, Minnesota, 1950  
F. Clark and C. B. LeBovit. AIB-127, 112 pp., illus. Jan 1955. 40 cents.

Flavor and benzene hexachloride content of peanuts grown in rotation with cotton  
dusted with insecticides containing benzene hexachloride. H. Reynolds, G. L.  
Gilpin, and I. Hornstein. Cir. 952, 26 pp., illus. Dec. 1954. (In coop. with  
Ent. Res. Br.) 15 cents.

Serviceability of sheets composed wholly or in part of cotton and viscose staple  
rayon. V. I. McLendon and S. Davison. Tech. Bul. 1103, 57 pp., illus.  
Jan. 1955. 30 cents.

Articles published in professional journals (PLEASE CONSULT JOURNALS; U. S.  
DEPARTMENT OF AGRICULTURE USUALLY CANNOT FURNISH REPRINTS OF ARTICLES.)

Dental caries prevalence in children 15 and 16 years of age in three Idaho  
communities. K. O. Porter and E. Woods. Jour. Dental Res. 33(4): 542-551.  
Aug. 1954. (West. Region. Proj., Human Nutr. Res. Br. cooperating.)

The nutritional status of Papago Indian children. M. G. Vavich, A. R. Kemmerer,  
and J. S. Hirsch. Jour. Nutr. 54(1): 121-132. Sept. 1954. (West. Region.  
Proj., Human Nutr. Res. Br. cooperating.)

Children with and without rheumatic fever. III. Blood serum vitamins and  
phosphatase data. E. B. Wilcox, L. S. Galloway, P. Wood, and F. L. Mangelson.  
Jour. Amer. Dietet. Assoc. 30(12): 1231-1238. Dec. 1954. (West. Region. Proj.,  
Human Nutr. Res. Br. cooperating.)

Iowa women contributors to science. E. Willis, P. Swanson, P. Mairs, and H. Roberts.  
Iowa Farm Science 9(4): 8-10. Oct. 1954. (No. Cent. Region. Proj., Iowa State  
Col., Human Nutr. Res. Br. cooperating.)

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Articles published in professional journals--Cont.

Iowa women: The kinds of food they eat. E. Willis, P. Swanson, R. Angus, and A. Pohm. Iowa Farm Science 9(5): 19-21. Nov. 1954. (No. Cent. Region. Proj., Iowa State Col., Human Nutr. Res. Br. cooperating.)

We've counted the calories in your diet. P. Mairs, E. Willis, and P. Swanson. Iowa Farm Science 9(6): 15-18. Dec. 1954. (No. Cent. Region. Proj., Iowa State Col., Human Nutr. Res. Br. cooperating.)

Nutritive value of the diets of Iowa school children. E. S. Eppright, V. D. Sidwell, and P. P. Swanson. Jour. Nutr. 54(3): 371-388. Illus. Nov. 1954. (No. Cent. Region. Proj., Human Nutr. Res. Br. cooperating.)

Physical measurements of Iowa school children. E. S. Eppright and V. D. Sidwell. Jour. Nutr. 54(4): 543-556. Illus. Dec. 1954. (No. Cent. Region. Proj., Human Nutr. Res. Br. cooperating.)

Relationship of estimated nutrient intakes of Iowa school children to physical and biochemical measurements. E. S. Eppright, C. Roderuck, V. D. Sidwell, and P. P. Swanson. Jour. Nutr. 54(4): 557-570, illus. Dec. 1954. (No. Cent. Proj., Human Nutr. Res. Br. cooperating.)

Variability in the measure of total ascorbic acid utilization by the human. K. H. Fisher and M. L. Dodds. Jour. Nutr. 54(3): 389. Nov. 1954. (No. Cent. Region. Proj., Human Nutr. Res. Br. cooperating.)

A service study of twelve cotton broadloom floor coverings. M. L. Hensley and H. M. Fletcher. Jour. Home Econ. 47(2): 110-114. Feb. 1955.

Filmstrip

A research project...in a home equipment laboratory. (Black and white.) No. 711. (Laboratory scenes from electricity and LP-gas research.) Home Economics Research Branch, Agricultural Research Service, U. S. Department of Agriculture, Washington 25, D. C.